

IN THE CLAIMS

Amend claims 1, 7, and 27, and cancel claims 6, 9, and 20-26, as follows:

1. (currently amended) A method for controlling pests ~~selected from the group consisting of flies and ticks~~, comprising applying a cytochrome P450 monooxygenase inducer and an organophosphate pesticide to the locus of said pests, wherein said pests are ticks and said cytochrome P450 monooxygenase inducer and said organophosphate pesticide are applied in an amount such that the combination thereof is present in a pesticidally effective amount.

2. (original) The method of claim 1 wherein said organophosphate pesticide is selected from the group consisting of coumaphos, diazinon, chlorpyrifos, fenthion, and pirimiphos-methyl.

3. (original) The method of claim 1 wherein said cytochrome P450 monooxygenase enhancer is a triazine.

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4. (original) The method of claim 3 wherein said cytochrome P450 monooxygenase enhancer is selected from the group consisting of atrazine, propazine, and simazine.

5. (original) The method of claim 1 wherein said combination of said cytochrome P450 monooxygenase inducer and said organophosphate pesticide is selected from the group consisting of atrazine with coumaphos, atrazine with diazinon, atrazine with chlorpyrifos, propazine with diazinon, atrazine with fenthion, atrazine with pirimiphos-methyl, and propazine with pirimiphos-methyl.

6. (cancelled).

7. (currently amended) The method of claim ~~6~~ 1 wherein said pests are selected from the group consisting of cattle fever ticks (*Boophilus annulatus* and *B. microplus*), ~~the horn fly~~ ~~(*Haematobia irritans irritans*)~~, and the brown dog tick (*Rhipicephalus sanuineus*).

8. (original) The method of claim 7 wherein said cytochrome P450 monooxygenase inducer is applied in an amount

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effective to synergistically increase the pesticidal activity of said organophosphate pesticide.

9. (cancelled).

10. (previously presented) The method of claim 1 wherein said applying comprises applying said cytochrome P450 monooxygenase inducer and said organophosphate pesticide onto an animal host of said pests.

11. (original) The method of claim 10 wherein said animal is selected from the group consisting of livestock, wild animals, and domestic animals.

12. (original) The method of claim 10 wherein said animal is selected from the group consisting of bovine, canine, equine, and Cervidae.

13. (original) The method of claim 10 wherein said applying said cytochrome P450 monooxygenase inducer and said organophosphate pesticide onto an animal comprises spraying, pouring, dipping, rubbing, dusting, oiling, or ear tagging.

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14. (original) The method of claim 13 wherein said cytochrome P450 monooxygenase inducer and said organophosphate pesticide are formulated in the same composition.

15. (original) The method of claim 14 wherein said composition further comprises an inert carrier selected from the group consisting of alcohols, ethers, hydrocarbons, halogenated hydrocarbons, glycols, ketones, esters, oils, clays, kaolinite, silicas, cellulose, rubber, talc, vermiculate, synthetic polymers, controlled release microparticles, and controlled release microcapsules.

16. (original) The method of claim 1 wherein said cytochrome P450 monooxygenase inducer and said organophosphate pesticide are formulated in separate compositions.

17. (original) The method of claim 1 wherein said cytochrome P450 monooxygenase inducer and said organophosphate pesticide are formulated in the same composition.

18. (original) The method of claim 17 wherein said composition further comprises an inert carrier.

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19. (original) The method of claim 18 wherein said carrier is selected from the group consisting of alcohols, ethers, hydrocarbons, halogenated hydrocarbons, glycols, ketones, esters, oils, clays, kaolinite, silicas, cellulose, rubber, talc, vermiculate, synthetic polymers, controlled release microparticles, and controlled release microcapsules.

20-26. (cancelled).

27. (currently amended) The method of claim ~~26~~ 1 wherein said pests are selected from the group consisting of cattle fever ticks (*Boophilus annulatus* and *B. microplus*), the lonestar tick (*Amblyomma americanum*), and the brown dog tick (*Rhipicephalus sanguineus*).